

FIG. 1

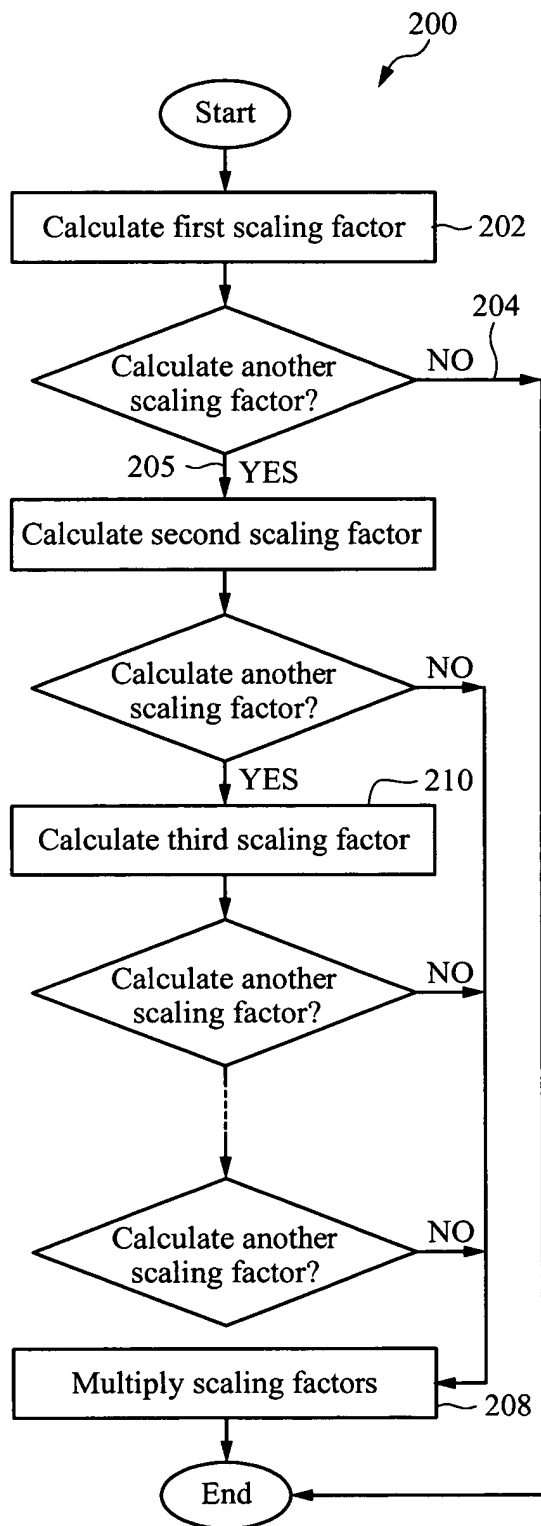


FIG. 2

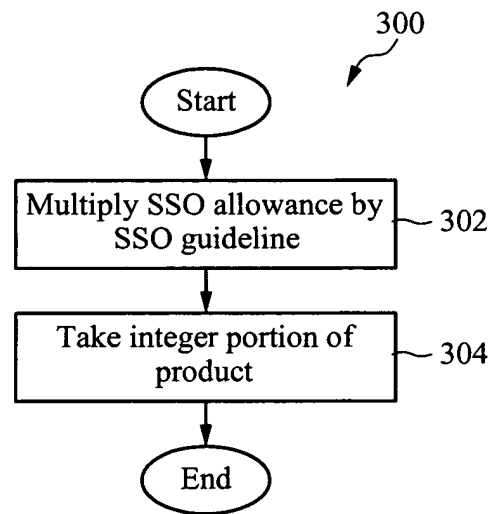


FIG. 3

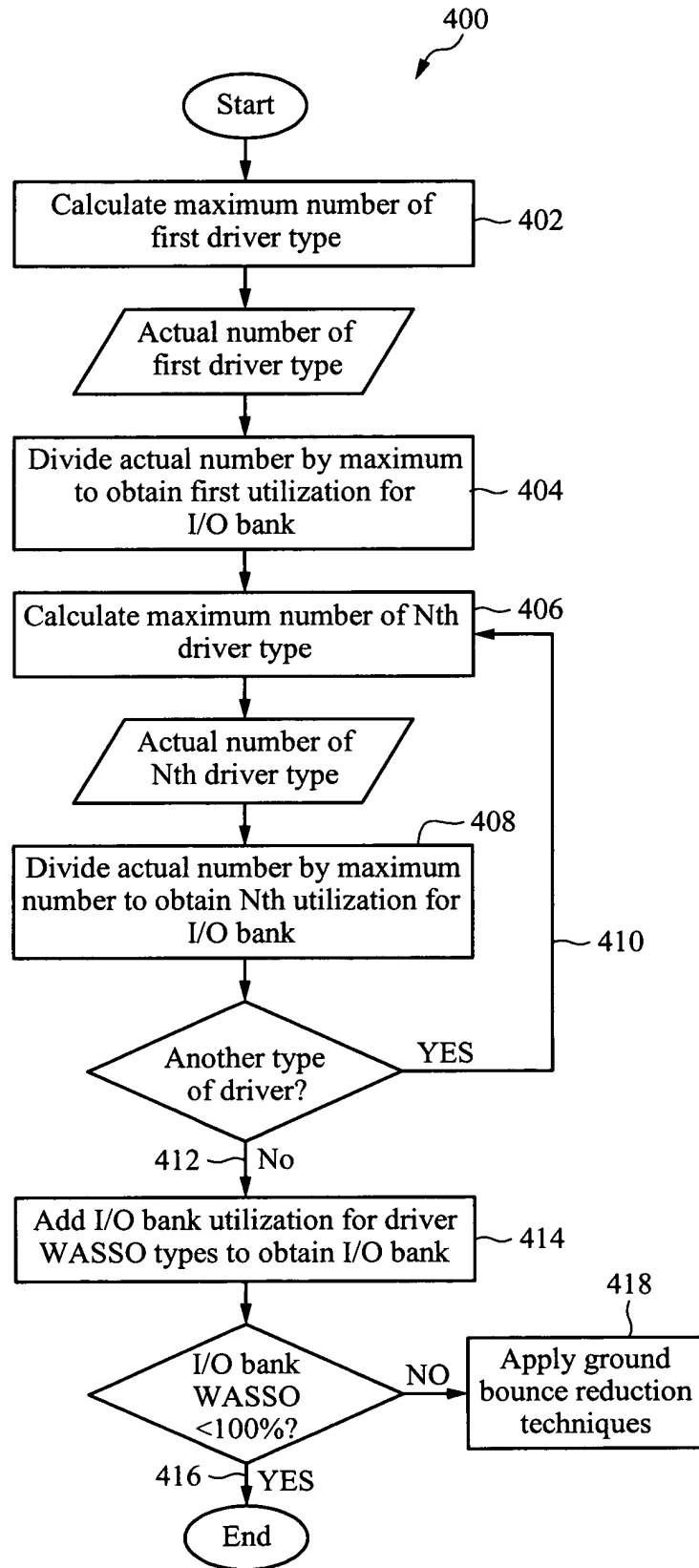


FIG. 4

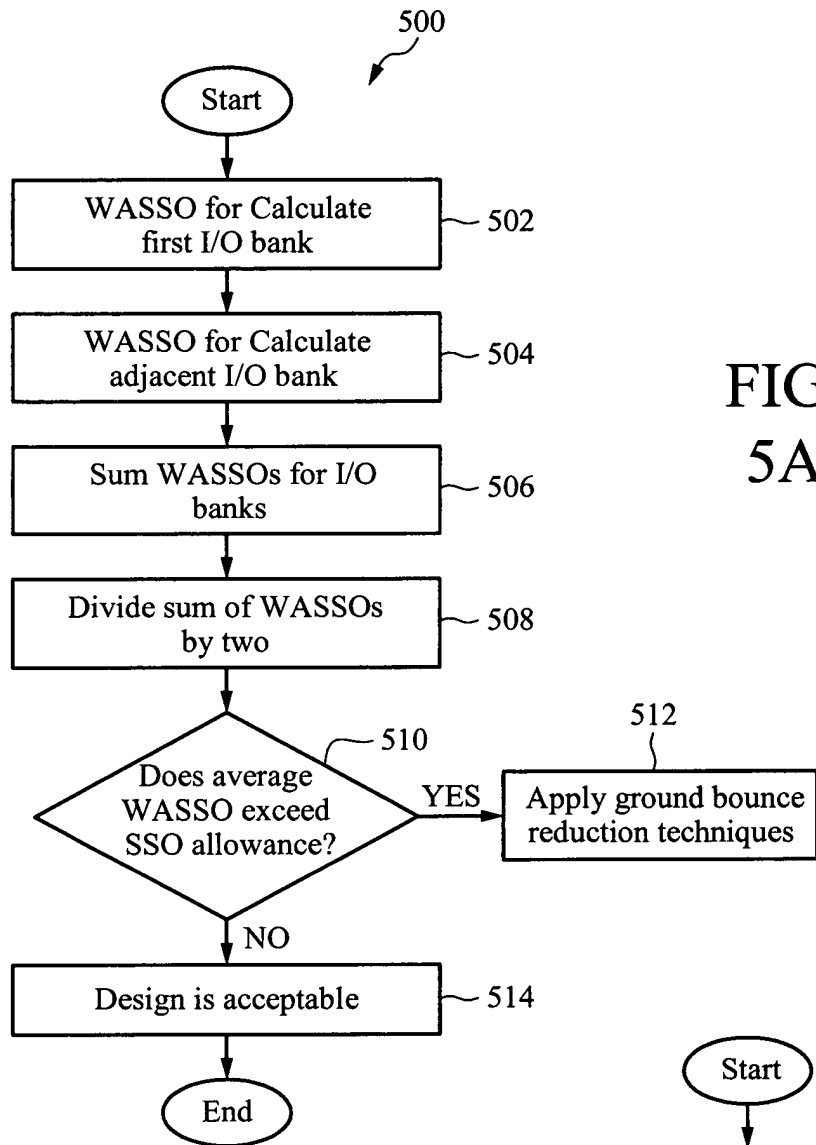
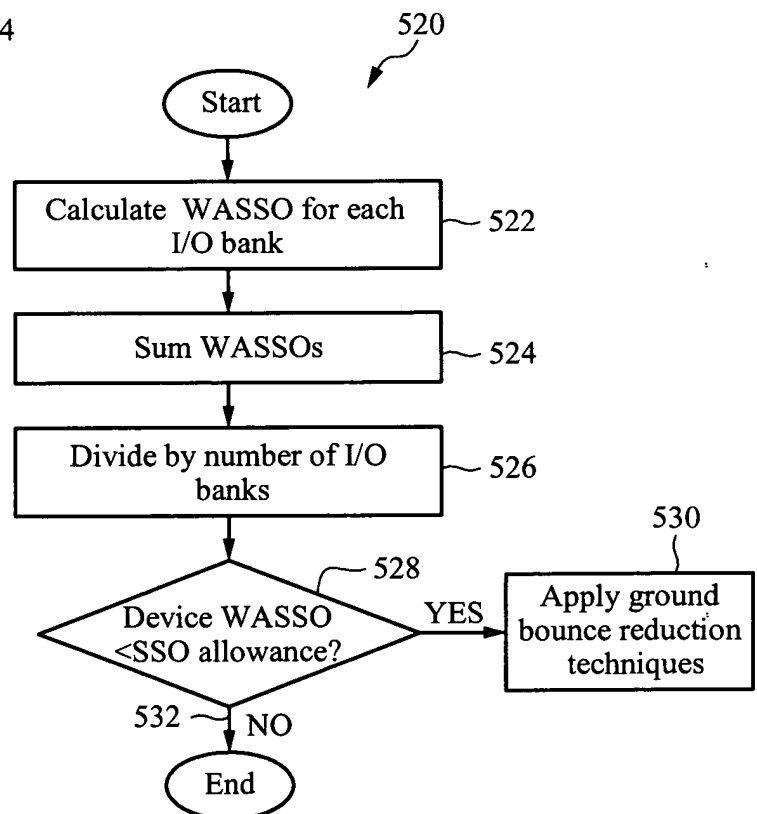


FIG. 5B



PCB Design Parameters

Board Thickness
Via Diameter (Finished)
Pad-to-Via Break-out Length
Width Break-out
Other PCB Parasitic Inductances
Socket Inductance
Calculated Via Inductance
Calculated Break-out Inductance
Calculated Total Inductance

62	mils
12	mils
17	mils
12	mils
0	nH
0	nH
0.72	nH
0.09	nH
0.80	nH

Enter Design parameters in blue cells
Click on each colored cell for "pop-up" comments
Check all cells at bottom for "OK" status
Must resolve all cells with "Not OK" status
Grey cells show calculation result based on user inputs

Devices Driven by FPGA Outputs
Max Input Low Voltage Threshold
Max Input Undershoot (Absolute Value)
Max Ground Bounce Allowed

	Dev 1	Dev 2	Dev 3	Dev 4	Dev 5	Dev 6	Dev 7	Dev 8	Dev 9	Dev 10	Dev 11	Dev 12	Dev 13	Dev 14	Dev 15
800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
600	800	800	800	800	800	800	700								
600	mV														

Physical Description of Output Loads
of Nets with Similar Load Characteristics
Loads per Net
Maximum Load Capacitance per Device
Calculated Capacitance per net in Group
Calculated Average Capacitance per Load

	Grp 1	Grp 2	Grp 3	Grp 4	Grp 5	Grp 6	Grp 7	Grp 8	Grp 9	Grp 10	Grp 11	Grp 12	Grp 13	Grp 14	Grp 15
30	40	50	60	70	80	90									
7	6	5	4	3	2	1									
7	7	7	7	7	7	7	31								
49	42	35	28	21	14	217	0	0	0	0	0	0	0	0	0
14.79	pF														

FPGA Allocation of Resources

I/O banks in package
Power/GND pairs in each I/O bank
Type 1 # of Drivers Used
Type 1 # of SSOs allowed per Power/GND pair
Type 2 # of Drivers Used
Type 2 # of SSOs allowed per Power/GND pair
Type 3 # of Drivers Used
Type 3 # of SSOs allowed per Power/GND pair
Type 4 # of Drivers Used
Type 4 # of SSOs allowed per Power/GND pair
Type 5 # of Drivers Used
Type 5 # of SSOs allowed per Power/GND pair

	Bank 0	Bank 1	Bank 2	Bank 3	Bank 4	Bank 5	Bank 6	Bank 7
8	13	13	13	13	13	13	13	13
43	12	12	12	19	19	3	6	10
5	5	5	5	5	5	5	5	5
30	24	30	30	30	30	30	30	0
10	10	10	10	10	10	10	10	10
22	22	22	22	22	22	22	22	0
22	22	22	22	22	22	22	22	22
7	7	7	7	7	7	7	7	7
4	4	4	4	4	4	4	4	4

WASSO Utilization & Status

Bank SSO Allowance
Bank WASSO Utilization
Bank WASSO Status
2-bank SSO Allowance
2-bank WASSO Utilization
2-bank WASSO Status

	Bank 0	Bank 1	Bank 2	Bank 3	Bank 4	Bank 5	Bank 6	Bank 7
96.9%	100%	100%	100%	100%	100%	100%	100%	100%
OK	OK	OK	OK	OK	OK	OK	OK	OK
56.2%	100%	100%	100%	100%	100%	100%	100%	100%
OK	OK	OK	OK	OK	OK	OK	OK	OK

Package SSO Allowance
Package WASSO Utilization
Package WASSO Status

100%	624
50.2%	626
OK	OK

FIG. 6